

In the Claims:

1-118. (Previously canceled).

119. (Currently amended) An isolated polypeptide having at least 80% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (~~SEQ ID NO: 422~~);
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (~~SEQ ID NO: 422~~); lacking its associated signal peptide;
- (c) the amino acid sequence of the extracellular domain of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (~~SEQ ID NO: 422~~);
- (d) ~~the amino acid sequence of the extracellular domain of the polypeptide shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160;
wherein said polypeptide induces chondrocyte redifferentiation.

2 120. (Currently amended) The isolated polypeptide of Claim 119 having at least 85% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (~~SEQ ID NO: 422~~);
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (~~SEQ ID NO: 422~~); lacking its associated signal peptide;
- (c) the amino acid sequence of the extracellular domain the polypeptide of SEQ ID NO: 422 shown in Figure 304 (~~SEQ ID NO: 422~~);
- (d) ~~the amino acid sequence of the extracellular domain of the polypeptide shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160;

wherein said polypeptide induces chondrocyte redifferentiation.

3 121. (Currently amended) The isolated polypeptide of Claim 119 having at least 90% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (SEQ ID NO: 422);
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide;
- (c) the amino acid sequence of the extracellular domain of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (SEQ ID NO: 422);
- (d) ~~the amino acid sequence of the extracellular domain of the polypeptide shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160;

wherein said polypeptide induces chondrocyte redifferentiation.

4 122. (Currently amended) The isolated polypeptide of Claim 119 having at least 95% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (SEQ ID NO: 422);
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide;
- (c) the amino acid sequence of the extracellular domain of the polypeptide of SEQ ID NO: 422 shown in Figure 304 (SEQ ID NO: 422);
- (d) ~~the amino acid sequence of the extracellular domain of the polypeptide shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160;

wherein said polypeptide induces chondrocyte redifferentiation.

5 123. (Currently amended) The isolated polypeptide of Claim ~~119~~ having at least 99% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422);~~
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422);~~ lacking its associated signal peptide;
- (c) the amino acid sequence of the extracellular domain of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422);~~
- (d) ~~the amino acid sequence of the extracellular domain of the polypeptide shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160;
wherein said polypeptide induces chondrocyte redifferentiation.

6 124. (Currently amended) An isolated polypeptide comprising:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422);~~
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422);~~ lacking its associated signal peptide;
- (c) the amino acid sequence of the extracellular domain of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422);~~ or
- (d) ~~the amino acid sequence of the extracellular domain of the polypeptide shown in Figure 304 (SEQ ID NO: 422); lacking its associated signal peptide; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160.

7 125. (Currently amended) The isolated polypeptide of Claim ~~124~~⁶ comprising the amino acid sequence of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422).~~

8 126. (Currently amended) The isolated polypeptide of Claim ⁶124 comprising the amino acid sequence of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422)~~, lacking its associated signal peptide.

9 127. (Currently amended) The isolated polypeptide of Claim ⁶124 comprising the amino acid sequence of the extracellular domain of the polypeptide of SEQ ID NO: 422 ~~shown in Figure 304 (SEQ ID NO: 422)~~.

128. Canceled.

10 129. (Previously presented) The isolated polypeptide of Claim ⁶124 comprising the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203160.

11 130. (Currently amended) A chimeric polypeptide comprising a polypeptide according to Claim ⁶~~124~~ 119 fused to a heterologous polypeptide.

12 131. (Previously presented) The chimeric polypeptide of Claim ¹¹~~130~~, wherein said heterologous polypeptide is an epitope tag or an Fc region of an immunoglobulin.